

1st set of aA'd data for Phese I and set due by 7/1



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**REGION IX** 

215 Fremont Street San Francisco, Ca. 94105



copy sent to J. Goodrich

MAY 2 7 1987

**MEMORANDUM** 

SUBJECT:

Review of Analytical Data

Kent M. Kitchingman, Chief

FROM: Quality Assurance Management Section

Environmental Services Branch, OPM (P-3-2)

Tom Mix TO.

Enforcement Response Section,

Superfund Programs Branch, TWMD (T-4-A)

Attached are comments resulting from Region 9 review of the following analytical data:

SITE: Ordot Landfill Guam

EPA SITE ID NO.: GUD 980637649

CASE/SAS NO.: 6926

LABORATORY: California Analytical Labs

ANALYSIS: Metals, CN-

MY0195; MY2095-2100, MY0789-0791, MY0187 SAMPLE NO.:

(13 Waters)

COLLECTION DATE: 3/12 & 13/87

Karen Bankert KB REVIEWER:

TELEPHONE NUMBER: 415/974-8856

If there are any questions regarding this information, please contact the reviewer.

Attachment

Duane Geuder, QA Officer, EPA-HQ (WH-548A) cc:

Data Audit Team (LEMSCO), EMSL-LV

### DATA EVAUATION REPORT FOR

| CASE NO.: | 6926  |               |
|-----------|-------|---------------|
|           |       |               |
| SITE:     | ORDOT | LANDFILL-GUAM |

by

# QUALITY ASSURANCE MANAGEMENT SECTION ENVIRONMENTAL SERVICES BRANCH

U.S. ENVIRONMENTAL PROTECTION AGENCY 215 Fremont Street San Francisco, California 94105

MAY 2 7 1987

Date

Kalen Bankert
Karen Bankert

Reviewer

FTS Tel. NO. 454-8856

Commercial Tel. 415/974-8856

Concurrence

FTS Tel. NO. 454-8/49 Commercial Tel. 914-8/49 Case No. 6926

Site: Ordot Landfill, Guam Lab: Cal Analytical/ENSECO Date of this Report: 5/19/87

Reviewer: Karen Bankert

# Metals/Cyanide 13 Low Waters

# I. <u>Introduction:</u>

أسام لماله

- A. Thirteen (13) low water samples were submitted to the laboratory on March 16 & 17, 1987 for Metals and Cyanide analyses.
- B. The field duplicates are MY0190 and MY0191; MY0192 and MY2096; and MY0790 and MY0791. No field blanks were submitted.
- C. The analytical results with qualifications are listed in Table 1. This report is prepared in accordance with EPA document "Laboratory Data Validation-Functional Guidelines for Evaluating Inorganic Analyses, November 1985.

# II. Validity:

- A. The following results in Table 1 are considered to be estimates due to accuracy problems (See Section III C.)
  - o Mercury in sample MY2100
- B. The following results in Table 1 are considered to be estimates and useable for limited purposes due to problems with precision (See Section III D,E,F.)
  - Iron for samples MY0190, MY0191, MY0192, MY2096
  - Zinc for samples MY0192 and MY2096
  - ° Copper for samples MY0790 and MY0791
- C. All other results are considered valid for all purposes.

### III. General Comments

- A. The matrix spike recovery for silver was low (73%). However, the reviewer considered the result "not detected" for silver to be valid for all samples.
- B. The matrix spike recovery for selenium was low (69%). However, the reviewer considered the result "not detected" for selenium to be valid for all samples.

- C. The matrix spikes for mercury were 62% and 178%. Because of this, the mercury value for MY2100 is considered to be an estimate(J). However, the reviewer considered the results of "not detected" for mercury in all other samples to be valid.
- D. An acceptable analytical result above the instrument dectection limit but below the "Contract Required Quantitation Limit" (CROL) is considered to be qualitatively acceptable but quantitatively unreliable due to uncertainty in analytical precision. In this case the result is marked with brackets.
- E. The results for iron in samples MY0192 and MY2096 are considered estimates and useable for limited purposes. These samples are field duplicates with an RPD of 62%.
- F. The results for copper in samples MY0192 and MY2096 are considered estimates and usable for limited purposes. These samples are field duplicates with a RPD of 62%.
- G. The cyanide result in sample MY0192 has an elevated detection limit due to the sample volume used in the analysis.

| Came No. (92)( sire   NCOT   AND SI GUAM   Lab   (AL /ENSED) Type of Analysis   WOIDS (N - D) WOTER (LOW) Units of Concentration   MA   L  Nate Samples Collected   3/12 and 3/13/83 Date Samples Rec'd at Lab   3/16 and 3/13/83 Date Data Package Rec'd at Region 9   A/15/83 Date of this Report   5/14/83 Reviewer   KALPAN KO2 |                                 |          |      |       |        |                   | Volat<br>Volat<br>ABN E<br>ABN E<br>ABN A<br>Pesti<br>Pesti | ile Organie Or | anics, Y<br>anics, S<br>on, Wate<br>on, Soil<br>traction | Soil<br>er<br>. Water | rcs c  | ontract 7 days 10 days 5 days 10 days 10 days 10 days 5 days 10 days | Actua<br>day<br>day<br>day<br>day<br>day | As<br>As<br>As<br>As<br>As<br>As | MAXIMUM HOLDING TIMES, INORGANICS Contract Cyahide 14 days Mercury 30 days 5 days Cther Metals 6 mos.  VALIDITY OF DAYA No flag is used when value is considered walld for all purposes I [Rejected] - Value is considered usable for limited purp |          |        |          |        |          |       |          |        | eg i    |        |          |  |  |  |
|---|---------------------------------|----------|------|-------|--------|-------------------|---|--|--|-----------------------|--------|--|--|----------------------------------|--|----------|--------|----------|--------|----------|-------|----------|--------|---------|--------|----------|--|--|--|
|   | l Aluminum   Antimonu   Arsenic |          |      |       | 110    | Barium   Banklium |   |  | Cadn   | Cadmium 10            |        | calcium  |  | arromium 10                      |  | lt 1     | Copper |          | Ilon   |          | ILEAD |          | Hagne  | 51      |        |          |  |  |  |
| Sample #  | Roult                           | Validita | Rout | blonu | Repult | Validita          | Rout  | Validita   | ROSULE   | Validity              | Result | Valida   | Regult                                   | Validita                         | Result   | Validita | Result | Validita | Result | Validita | Hoult | Validita | Result | Valiona | Regit  | V        |  |  |  |
| MY0190 (PI)   |                                 |          | 200  |       | 100    | )                 | [6]   |  | 0.20   | U                     | 4.30   |  | 117900                                   |                                  | 3.70   |          | 6.80   |          | [6]    |          | [75]  | 7        | 500    |         | [4151] |          |  |  |  |
| MYOIGI (DI)   | [50]                            |          | 20 U |       | (01)   |                   | [6]   |  | 0.20   |                       | 431    |  | 116700                                   |                                  | 3.70   |          | 6.80   |          | 5.90   |          | [38]  |          | 5.0U   |         | [4102] |          |  |  |  |
| M/0192 (02)   | [70]                            |          | 20 🗆 |       | IOU    |                   | [4]   |  | 0.2U   |                       | 4311   |  | 42560                                    |                                  | 3.71   |          | 6.80   |          | 5,9∐   |          | 118   | J        | 5.00   |         | 9166   |          |  |  |  |
|   | 75]                             |          | 20U  |       | 101    |                   | [4]   |  | 0.20   |                       | 4.31   | <u> </u>   | 42720                                    |                                  | 3.70   |          | 6.80   |          | 5.91   |          | 2,23  |          | 5.00   |         | 9210   | L        |  |  |  |
| MY2095  | [08]                            |          | 20U  |       | 100    |                   | [5]   |  | 0.20   |                       | 4.30   | <u> </u>   | 42150                                    |                                  | 3.70   | '        | 6.80   |          | 5.9U   |          | 106   |          | 5.00   |         | 8745   |          |  |  |  |
| MY2097  | [77]                            |          | 200  |       | 100    |                   | [9]   |  | 0.20   |                       | 430    |  | 93930                                    |                                  | 3.70   |          | 6.80   |          | 5.90   |          | 124   |          | 5.00   |         | 7491   | _        |  |  |  |
| MY2098  | 837                             |          | 201  |       | 10U    |                   | [190]   |  | 0.20   |                       | 4.30   | <u> </u>   | 41610                                    |                                  | 3.71   |          | [15]   |          | [6]    |          | 631   |          | 5.00   |         | 31210  | _        |  |  |  |
| MY2099  | 466                             |          | 20 U |       | IOU    |                   | [54]  |  | 0.20   |                       | 430    |  | 66200                                    |                                  | 3.70   |          | 6.8 U  |          | [[0]   |          | 639   |          | 5.0U   |         | 54290  | Γ        |  |  |  |
| MY8789  | 3583                            |          | 20日  |       | 100    |                   | 307 v   |  | 0.20   |                       | 430    | <u> </u>   | 85870                                    |                                  | 11   |          | C13]   |          | 31     |          | 39260 |          | 18.0   |         | 60290  | $\bar{}$ |  |  |  |
| MY0790 (DB)   | 931                             |          | 20 U |       | 1017   |                   | [ID]  |  | 0.20   |                       | 430    |  | 85060                                    |                                  | 3.70   |          | 6.84   |          | 34     | J        | 895   |          | 500    |         | 59130  | Γ        |  |  |  |
| MY0741 (23)   | 876                             |          | 20 U |       | 101    |                   | CIIJ  |  | 0.20   |                       | 4.30   |  | 88870                                    |                                  | 3.70   |          | 6.81   |          | 487    |          | 1014  |          | 5.9    |         | 61980  | ī        |  |  |  |
| MY2100  | [45]                            |          | 200  |       | 100    |                   | [5]   |  | 0.2U   |                       | 4.30   | ;  | 113800                                   |                                  | 3.70   |          | 6.80   |          | [10]   |          | [45]  |          | 5.01   |         | [3215] | -        |  |  |  |
| MY0187  | [150]                           |          | 201  |       | 100    |                   | [13]  |  | 0.20   |                       | 4.30   |  | 103700                                   |                                  | 3.71   |          | 6.80   |          | 5.9U   |          | 243   | Ţ        | 5.3    |         | 23580  |          |  |  |  |
| MY0187<br>Glank   | 310                             |          | 201  |       | 2.10   |                   | 0.90  |  | 0.20   |                       | 4.30   |  | 240                                      |                                  | 370  |          | 6.8U   |          | 5.90   |          | 9.21  |          | 2.00   | 7,      | 404    | Γ        |  |  |  |
| IOL   | 31                              |          | 20   |       | 2.1    |                   | 0.9   |  | 0.2  |                       | 4.3    |  | 24                                       |                                  | 3.7  |          | 6.8    |          | 5.9    |          | 9.2   |          | 2.0    |         | 40     | Γ        |  |  |  |
| CROL  | 200                             |          | 60   |       | 10     |                   | 200   |  | 5  |                       | 5      |  | 5000                                     |                                  | 10   |          | 50     |          | 25     |          | 100   |          | 5      |         | 500    | Γ        |  |  |  |
|   |                                 |          |      |       |        |                   |   | l  |  |                       |        |  |  |                                  |  |          |        |          |        |          |       |          |        |         |        | [        |  |  |  |
|   |                                 |          |      |       |        |                   | 4   |  |  |                       |        |  |  |                                  |  |          |        |          |        |          |       |          |        |         |        | Γ        |  |  |  |
|   |                                 |          |      |       |        |                   |   |  | İ  |                       | İ      |  |  |                                  |  |          |        |          |        |          | L     |          |        |         |        | Γ        |  |  |  |
|   |                                 |          |      |       |        |                   |   |  |  |                       |        |  |  |                                  |  |          |        |          |        |          |       |          |        |         |        | Γ        |  |  |  |
|   |                                 |          |      |       |        |                   |   |  |  |                       |        | <u> </u>   |  |                                  | <u> </u>   |          |        |          |        |          |       |          |        |         |        |          |  |  |  |
|   |                                 |          |      |       |        |                   |   |  |  |                       |        |  |  |                                  |  |          |        |          |        |          |       |          | ]      |         |        | Γ        |  |  |  |
|   |                                 |          |      |       |        |                   |   |  |  |                       |        |  |  |                                  |  |          |        |          |        |          |       |          |        |         |        |          |  |  |  |
|   |                                 |          |      |       |        |                   |   |  |  |                       |        |  |  |                                  |  |          |        |          |        |          |       |          |        |         |        |          |  |  |  |
|   |                                 |          |      |       |        |                   |   |  |  |                       |        |  | L  |                                  |  |          |        |          |        |          |       |          |        |         |        |          |  |  |  |
|   |                                 |          |      |       |        |                   |   |  |  |                       |        |  |  |                                  |  |          |        |          |        | I        |       |          |        |         |        | Γ        |  |  |  |
|   |                                 |          |      |       |        |                   |   |  |  |                       |        |  |  |                                  |  |          |        |          |        |          |       |          |        |         |        | Γ        |  |  |  |

EPA FORM 900

|   |                                 | TABLE 1.        |
|---|---------------------------------|-----------------|
|   | MAXIMUM HOLDING TIMES, ORGANICS | Contract Actual |
|   | Volatile Organics, Water        | 7 days days     |
|   | Volatile Organics, Soil         | 10 days days    |
| · | ABN Extraction, Water           | 5 days days     |
|   | ABN Extraction, Soil            | 10 days days    |
|   | ABN Analysis                    | 40 days days    |
| 7 | Pesticide Extraction, Water     | 5 days days     |
|   | Pesticide Extraction, Soil      | 10 days days    |
|   | Pesticide Analysis              | 40 days days    |

MAXIMUM HOLDING TIMES, INORGANICS Contract
Cyanide 14 days Contract Actual 14 days Mercury Other Metals 30 days 6 mos.

|   | ,,          |   |       |      |            |        |     |         |         |
|---|-------------|---|-------|------|------------|--------|-----|---------|---------|
| J | [Estimated] | - | Value | is e | considered | usable | for | limited | numoses |
|   | -           |   |       |      |            |        |     |         |         |

| site Orant Landfill Guam            |  |  |  |  |             |             |          | ile Orga   |             | ater          | <u> </u>      | 7 days   | days Cyanide |              |               | 14 days 7 days |                                     |               |              |  |             |             |            |   |                |
|-------------------------------------|--|--|--|--|-------------|-------------|----------|--|-------------|---------------|---------------|--|--------------|--------------|---------------|----------------|-------------------------------------|---------------|--------------|--|-------------|-------------|------------|---|----------------|
| Lab (                               | AL/EN  | SELO.  |  |  |             |             | Vo) at   | ile Orga   | mice, S     | oil           | :             | 10 days  | days Mercury |              |               |                | 30 days 7 days                      |               |              |  |             |             |            |   |                |
| Type of Ar                          | alysis_  | METALS   | y CN-  | //3.H <sub>2</sub>                               | 20 LOW      |             |          | xtractio   |             |               |               | 5 days   | day          |              | Other Me      | eta]s          |                                     |               | 6            | mos.   | days        |             |            |   |                |
| Units of C                          | CONCE  | acton -  | MAIL   | 4043   | 7/3/02      |             |          | xtractio<br>malvais                              | on, Soil    |               |               | 10 days<br>40 days                               | day          |              | VALIDITY      | - C40 - D3/11  | <b>m</b> .                          |               |              |  |             |             |            |   |                |
| Date Sampl                          | les Rec'   | d at Lab   | 3/1  | 6 and  | 3/17/87     |             |          | cide Ext   | raction     | . Water       |               | 5 days   | day          |              | No flag       | is une         | d when                              | value i       | a consi      | dened v  | alid for    | all purp    | 200        |   |                |
| Onte Data                           | Package  | Rec'd a  | t Regio  | xn 9 4/  | 13/8F       |             | Pesti    | cide Ext   | raction     | , Soil        |               | 10 days  | day          | /8           | R [Renie      | cted] -        | Value:                              | is consi      | đered i      | mvalid   | for all     | purposes.   |            |   |                |
| Date Data<br>Date of th<br>Reviewer | his Repo   | 1270 1010  | 1-8+   | <u> </u>   |             | <del></del> | Pesti    | icide Ans  | lysis       |               | •             | 40 days  | day          | /8           | J [Esti       | mated]         | - Value                             | is cons       | idered       | usable   | for limi    | ted purpo   | ses.       |   |                |
| WGATGMEE"                           | <u> Nucu</u>                                     | LUMITAL D  |  |  |             |             | 0.       |  |             | -1            | <i>-</i> 1.1. | •  | رزار کے ا    |              |               | ۱ ا            | m   Tin   Vanadium   Ziric   Cyanii |               |              |  |             |             |            |   |                |
|                                     | Mana   | anese  | <u> Mera</u>                                       | wy   | Nick        |             | HOTA!    | Sium   | 20101       | nurn          | Silv          |  | 150011       |              | Thelli        |                | Jin                                 | <del></del>   | yanad        | ואוטוס   | ZIIIC       | 1 4         | yanio      | 0                                       |                |
|                                     |  | Validita   | Ketylt   | MIZOTA   | ROSULL      | Validity    | Result   | Validity   | <b>Rout</b> | Validity      | Krylt         | Valuaty  | ROULD        | Vallata      |               | Validity.      | Keult                               | Validita      | Kcylt        | Valdity  |             | Validity Re |            | eliditul                                |                |
| MYOIGO (DI)                         |  |  | 0.20   | ] 0  | 23U         |             | 948L     |  | 5.00        | 0             | 5.10          | 0  | IIIO :       |              | 100           |                | 170                                 |               | 3.10         | 기  | 44          | 11          | 011        | 10                                      |                |
| My0191 (01)                         |  |  | 0.20   |  | 231         |             | 948V     |  | 5.00        |               | 5:111         | Τ.   | 11040        |              | 101           |                | 170                                 | Ī             | 311          |  | 42          | 10          | טט         |   |                |
| MY0192 (D2)                         | [4]  |  | 0.20   |  | 230         |             | 948L     |  | 5.00        |               | 511           |  | 19040        |              | 101           |                | 170                                 |               | [3.9]        |  | [10]        | . 2         | OU         |   |                |
| MY2096 (02)                         | [5]  |  | 020  |  | 23日         |             | 9481     |  | 5.00        |               | 5,11          |  | 19180        |              | 100           |                | 170                                 |               | 7.6]         |  | [18]        |             | DU         |   | <del>-  </del> |
| MY2095                              | 20   |  | 0.20   |  | 230         |             | 948U     |  | 5.00        |               | 5. IV         |  | 17890        |              | IOU           |                | 1711                                |               | [5.4]        |  | <u>[97</u>  |             | <u>5</u> 1 |   |                |
| MY2097                              | [8]  |  | 0.20   | i  | 23U         |             | 9480     |  | 5.00        |               | 5.10          |  | 12880        |              | IOU           |                | 170                                 |               | 3.10         | <del>                                     </del> | [20]        |             | บ          |   |                |
| MY2098                              | 87   |  | 0.20   |  | [32]        |             | 9481     | -  | 5.01        | <del></del>   | 5.10          | <del></del>                                      | 38690        |              | 100           |                | טלו                                 |               | [3.6]        | -  | 137         |             |            |   |                |
|                                     | 142  |  | 0.21   |  | 230         |             | 14740    |  | 5.0U        |               | 310           | <del> </del>                                     | 126600       |              | IOU           |                | 170                                 | -             | 3.10         |  |             |             | טע         | <del></del>                             |                |
| MY2099                              | 142  |  |  | <del> </del>                                     |             |             | 22220    |  |             | <del>  </del> |               | <del></del>                                      |              |              |               |                |                                     | ·             |              |  | 31          |             | OU         |   |                |
| 1/0789                              | 3161   |  | 024  |  | 231         |             |          |  | 25U         |               | 5.11          | <del>                                     </del> | 119800       |              | 100           |                | 170                                 |               | [12.0]       |  | 13          |             | ען         |   |                |
| MY0790 (03)                         |  |  | 0.20   |  | 230         |             | 9480     |  | 500         |               | 5.10          |  | 62730        |              | 100           |                | .17U                                |               | 693          |  | 162         |             | DU.        |   |                |
| 140791 (03)                         |  |  | 0,20   |  | 230         |             | 948 D    |  | 5.00        |               | 211           |  | 65710        |              | 100           |                | 170                                 |               | <i>[6:3]</i> |  | 133         |             | UU         |   |                |
| MY2100                              | [4]  |  | 1.06   | J  | 231         |             | 9481     |  | 5.01        |               | 5.1V          | 1  | 8674         |              | 100           |                | 170                                 |               | 3.10         |  | 45          |             | 5.0        |   |                |
| MY0187                              | 224  |  | 0.2U   | <u> </u>   | 23U         |             | 15850    |  | 5.00        |               | 5,10          |  | 92870        |              | IOU           |                | 17 <i>U</i>                         |               | 3.10         |  | [9]         | 19          | 7.0        |   |                |
| Mank                                | 0.60   |  | 0.150  |  | 231         |             | 9480     |  | 1.90        |               | 5.IU          |  | 20U          |              | 2.80          |                | 170                                 |               | 3.10         |  | 130         | 4           | 1.20       |   |                |
| IDL                                 | 0.6  |  | 0.15   |  | 23          |             | 948      |  | 1.9         |               | 5,1           |  | 20           |              | 2.8           |                | 17                                  |               | 3.1          |  | 1.3         |             | 6.2        |   |                |
| IRDL                                | 15   |  | 0.2  |  | 40          |             | 5000     |  | 5           |               | 10            | 1 .  | 500          |              | 10            |                | 40                                  |               | 50           |  | 20          |             | 0          |   |                |
| A-9                                 |  |  | 17.00  |  |             |             |          |  |             |               |               |  |              |              | 1             |                | 10                                  |               |              |  |             |             |            | +                                       |                |
|                                     | <del>                                     </del> |  |  | <b> </b>   |             |             |          |  |             |               |               | 1  |              |              |               |                |                                     |               |              |  |             |             |            | <del>-  </del>                          |                |
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|                                     |  | 4  | <b></b>  | <del></del>                                      | <del></del> |             | ·····    |  | •           | *             |               |  | <del></del>  |              | <del></del>   |                | -                                   | ·             |              | ·  | <del></del> | l           |            |   |                |

Case No.

# FOOTNOTES:

Blank: Highest result among all the lab preparation blanks.

IDL: Instrument Detection Limit

CRDL: Contract Required Detection Limit

(D1): Field Duplicates MYO190 & MYO191

(D2): Field Duplicates MYO192 & MY2096

(D3): Field Duplicates MYO790 & MYO791

U: Parameter analyzed for, but not above the concentration listed.

[]: Acceptable result above the IDL, but below the CRQL is accepted qualitatively, but quantitatively unreliable.